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5-1970

## Agricultural Experiment Station News May 1970

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Increasingly, however, because of the complexity of systems and the interrelations of their components, meaningful research should involve the design and testing of whole systems. For example, row spacing in row crops interrelates with variety characteristics, irrigation practice, fertilization program, weed control, harvesting equipment and perhaps even with storage and handling requirements. Failure to adequately resolve any one of these can make work in the other segment quite academic because the system is not functional.

At the same time, with increasing technical sophistication, scientists, to be effective, must preserve and increase their specialization. These two requirements for effective research are incompatible when faced by an individual scientist. Thus, the need and benefit to all of multi-disciplined research projects. The agricultural industry gets "system proven" technology usable with a minimum of adaptive experimentation. The scientist is permitted specialized focus and competence and the satisfaction of having his results incorporated and applied to operative system improvement.

Sure, it is simpler and easier to go it alone. It takes meetings, planning, meetings, cooperation, meetings, compromise, meetings, joint authorship and more meetings to work as a team. But, our purpose is productive research and for this, cooperation is worth the effort.

#### PERSONNEL ACTIONS

Trotter, Virginia - from Dir., School of Home Ec. to Dean, College of Home Ec. - July 1  
 Anthony, Hazel - Associate Dean, College of Home Economics - July 1  
 Dickason, E. A. - Chairman, Department of Entomology (from Oregon State U.) - July 1  
 Gingles, Ruby - from Associate Director, School of Home Ec., to Professor HD&F - July 1  
 Hansen, G. D. - Chairman, Family Economics and Management - Graduate Staff  
 Hibbs, C. M. - Veterinary Science (North Platte) - Graduate Staff  
 Schluckebier, Mary - Home Economics, Northeast Station - Resignation

#### GRANTS AND CONTRACTS

Bagley, W. T. - Horticulture and Forestry - USDA CSRS	\$17,375.00
Burnside, O. C. - Agronomy - Dow Chemical Company	500.00
Cromer, C. A. - Agricultural Education - State Dept. of Educ.	5,000.00
Fenster, C. R. - Agronomy (Scotts Bluff Station) - Dow Chemical Company	1,200.00
Fenster, C. R. - Agronomy (Scotts Bluff Station) - W. R. Fawcett Farm	6,000.00
Ferguson, D. L. - Veterinary Science - NSF	28,000.00
Hagen, A. F. - Entomology (Scotts Bluff Station) - Union Carbide	
Knoche, H. W. and Olson, R. A. - Biochem. and Nutr. - U.S. Atomic Energy	11,560.00
Lucas, L. E. - Animal Science - Nebraska Pork Producers Association	3,500.00
Munson, J. D. - Entomology - Union Carbide	970.00
Munson, J. D. - Entomology - Hercules Powder Company	500.00
Munson, J. D. - Entomology - Mobil Chemical Company	750.00
Munson, J. D. - Entomology - Ortho Division - Chevron	1,500.00
Munson, J. D. - Entomology - Shell Development Company	500.00
Munson, J. D. - Entomology - Stauffer Chemical Company	500.00
Sullivan, T. W. - Poultry Science - Hoffman LaRoche Inc.	5,000.00
Wicks, G. A. - Agronomy (North Platte Station) - BASF Corporation	500.00
Wicks, G. A. - Agronomy (North Platte Station) - Dow Chemical Company	1,800.00
Wicks, G. A. - Agronomy (North Platte Station) - FMC Corporation	500.00

#### GENERAL NOTES

1. Tractor Power and Safety Day is July 30 rather than a week earlier as reported in the last newsletter. I missed a turn of the planning group somewhere - sorry.
2. The recent hail storm severely damaged crops research plots at the Havelock farm particularly the wheat nursery.
3. Supplies needed for yesterday's experiment must be ordered no later than tomorrow noon.

AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - MAY 1970

2871. Biological and Non-Biological Dissipation of Trifluralin from Soil. C. G. Messersmith, O. C. Burnside and T. L. Lavy. Weed Science Journal.
2872. Non-Lethal Injury and Limitations of Recovery of Coliform Organisms on Selective Media. R. B. Maxcy. Journal of Milk and Food Technology.
2873. Insecticidal Control of Stable Flies in Nebraska. John B. Campbell and John F. Hermanussen. Journal of Economic Entomology.
2874. Crown Freezing and Natural Survival Comparisons of F<sub>2</sub>-F<sub>5</sub> Bulk Generations of 32 Winter Barley Crosses. D. D. Warnes and V. A. Johnson. Crop Science.
2875. Effect of a Porcine Pancreatic Collagenase on Muscle Connective Tissue. L. D. Satterlee. Journal of Food Science.
2876. Atrazine Translocation and Metabolism in Sudangrass, Sorghum and Corn. F. W. Roeth and T. L. Lavy. Weed Science.
2877. Atrazine Uptake by Sudangrass, Sorghum, and Corn. F. W. Roeth and T. L. Lavy. Weed Science.
- 2878a. Sod Seeding Corn in Nebraska. Laren R. Robison and D. E. Lane. National ASA Meeting.
2879. Turbulent Transport and Energy Balance as Affected By a Windbreak in an Irrigated Sugar Beet (*Beta vulgaris*) Field. K. W. Brown and Norman J. Rosenberg. Agronomy Journal.
2880. Influence of Soil Type and Depth of Planting on Seed Longevity, Germination, and Seedling Emergence of Downy Brome. G. A. Wicks, O. C. Burnside and C. R. Fenster. Weed Science.
- 2881a. Controlling Downy Brome with Stubble Mulch Tillage in a Wheat-Fallow Rotation. C. R. Fenster and G. A. Wicks. Agronomy Abstracts.
- 2882a. The Effect of Seeding Rate and Chemical Treatment on the Production of Alfalfa (*Medicago sativa* L.). W. J. Moline and L. R. Robison. American Society of Agronomy Meetings.
- 2883a. Residual Mineral N Accumulation in Soil and Its Utilization by Irrigated Corn. G. M. Herron, A. F. Dreier, A. D. Flowerday, W. L. Colville and R. A. Olson. ASA Abstract.
2884. Neonatal Calf Diarrhea Virus. 1. Purification, Morphology, and Partial Characterization of Nucleic Acid. Ardyce B. Welch. Journal of Virology.
2885. Field Time Requirements and Machine Efficiencies for Till-Planted Row Crops. H. D. Wittmuss and D. E. Lane. Transaction of ASAE.
2886. Unstable Breeding Behavior of Fruit Shape in the F<sub>1</sub> of Butternut x Crookneck Squash Crosses and Implications in Hybridization. Dermot P. Coyne. HortScience.
2887. Biology of *Walshia miscecolorella* (Chambers), a Sweetclover Rootborer. G. R. Manglitz, H. J. Gorz and H. J. Stevens, Jr. Journal of Economic Entomology.
2888. Evaluating Circulation Cleaning by Analysis of Soil Depletion from Surfaces. R. G. Arnold and R. B. Maxcy. Journal of Dairy Science.

- 2889a. Effect of pH and Salt-Preblending on Emulsifying Characteristics of Turkey Meat. G. W. Froning and Doug Janky. Annual Meeting of Poultry Science.
- 2890a. Interrelationship of Dietary Cupric Sulfate and Penicillin-Streptomycin in the Diet of Young Turkeys. T. E. Bowen, T. W. Sullivan and R. C. Weeks. Annual Meeting - Poultry Science.
- 2891a. Effect of Manganese, Zinc, and Ferric Sulfates on the Prophylactic Efficacy of 4-Nitrophenylarsonic Acid. T. E. Bowen, T. W. Sullivan and O. D. Grace. Annual Meeting of Poultry Science.
- 2892a. Interrelationship of Dietary Vitamin D<sub>3</sub> with Potassium, Sodium and Magnesium in Young Turkeys. T. W. Sullivan and Ayhan Aksoy. Annual Meeting - Poultry Science.
- 2893a. Performance of Commercial Stocks of Layers and Influenced by Cage Density. F. B. Mather and Earl W. Gleaves. Annual Meeting of Poultry Science.
- 2894a. Chemical and Physical Composition of Young Turkeys. T. E. Hartung and S. Dewan. Annual Meeting of Poultry Science.
- 2895a. The Effect of End-Point Cooking Temperature and Refrigerated Storage on the Color of Turkey Dark Meat. Alberta Helmke and G. W. Froning. Annual Meeting of Poultry Science.
- 2896a. Effect of Ploidy Level on Heat and Heat Induced Drouth Reactions of Potatoes. R. B. O'Keefe. American Potato Journal.
- 2897a. Row Spacing and Fertilizer Practice Effects on Sprinkler Irrigated Potatoes. R. B. O'Keefe. American Potato Journal.
- 2898. The Effect of Dehydrated Alfalfa, Molasses and Pelletting on Utilization of Urea Rations. F. G. Owen, E. L. Fisher and P. J. Cunningham. Journal of Dairy Science.
- 2899a. An Extension Approach to Solving a Nebraska Poultry Industry Problem. Earl W. Gleaves. Annual Meeting of Poultry Science.
- 2900a. Antitranspirant Influence on Energy Balance Components in Field Grown Alfalfa. T. A. Hales and N. J. Rosenberg. Agronomy Society National Meeting, Tucson, August 1970.
- 2901. Infrared Spectroscopic Determination of Degree of Unsaturation of Fats and Oils. R. G. Arnold and T. E. Hartung. Journal of Food Science.
- 2902a. Estimating Probabilities of Freeze Damage to Frost-Sensitive Vegetables at Emergence. Ralph E. Neild and James K. Breig. 1970 Annual Meeting American Society for Horticultural Science.
- 2903a. Multiple Infectious Forms of a Free-RNA Plant Virus. J. S. Semancik and L. G. Weathers. Phytopathology.
- 2904a. Agroclimatic Parameters Defining Vegetables Growing Seasons in the Great Plains. Ralph E. Neild and James K. Greig. 1970 Annual Meeting American Society for Horticultural Science.
- 2905a. Effects of Nitrate Fertilizer on Yield of Some Improved Varieties of Perennial Warm-Season Grasses Under Grazing. E. C. Conard and Walter W. Woods. Agronomy Abstracts.

2906. Dragonfly Migrations Observed in Nebraska in 1969. Neva C. Pruess. Nebraska Bird Review.
2907. The Effects of Electrokinetics Upon Incrustation in Water Wells. D. M. Edwards and T. C. Mandal. ASAE Transactions.
2908. A Comparison of Poplar Clones in Eastern Nebraska. Walter T. Bagley. Journal of Soil and Water Conservation or Journal of Forestry.
- 2909a. Growth, Development and Plant Geometry of Cabbage. E. J. Kinbacher, R. E. Neild, and Hamdy Eisa. 1970 Annual Meeting of the American Society of Horticultural Science.

a = abstract

#### BULLETINS PRINTED

- RB 236 Wheat and Feed Grains in the Great Plains and Northwest: Supply Response and Resource Use. G. A. Helmers and W. F. Lagrone.
- RB 238 An Annotated List of Grasshoppers (Orthoptera, Acrididae) From the Eleven Panhandle Counties of Nebraska. A. F. Hagen.